Proposed Maximum Residue Limit PMRL2017-23

Tioxazafen

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Under the authority of the *Pest Control Products Act*, Health Canada's Pest Management Regulatory Agency (PMRA) has received applications to register technical grade tioxazafen and the end-use product MON 102133 SC Nematicide Seed Treatment for use in Canada on field corn and soybeans.

The evaluation of these tioxazafen applications indicated that the end-use product has value, and the human health and environmental risks associated with their proposed uses are acceptable. Details regarding these applications can be found in Proposed Registration Decision PRD2017-10, *Tioxazafen*, posted to the Health Canada website on 30 June 2017.

Before registering a pesticide for food use in Canada, the PMRA must determine the quantity of residues that are likely to remain in or on the food when the pesticide is used according to label directions and that such residues will not be a concern to human health. This quantity is then legally specified as a maximum residue limit (MRL). An MRL applies to the identified raw agricultural food commodity as well as to any processed food product that contains it, except where separate MRLs are specified for the raw agricultural commodity and a processed product made from it.

In addition, the PMRA is proposing to specify MRLs for tioxazafen on cotton to permit the import and sale of food containing such residues. The PMRA has determined the quantity of residues that are likely to remain in or on the imported commodities when tioxazafen is used according to label directions in the exporting country, and that such residues will not be a concern to human health. Details regarding the proposed MRLs on imported commodities can also be found in PRD2017-10.

Consultation on the proposed MRLs for tioxazafen is being conducted via PRD2017-10. Information regarding the proposed MRLs can be found in Sections 3.5 and 7.1. Supporting field trial residue data are provided in Appendix I, Table 4. The PMRA invites the public to submit written comments on the proposed MRLs for tioxazafen in accordance with the guidance found in PRD2017-10.

To comply with Canada's international trade obligations, consultation on the proposed MRLs is also being conducted internationally by notifying the World Trade Organization, as coordinated by Canada's Notification Authority and Enquiry Point.

The proposed MRLs for tioxazafen are as follows.

Table 1 Proposed Maximum Residue Limits for Tioxazafen

Common Name	Residue Definition	MRL (ppm)[1]	Food Commodity
Tioxazafen	3-phenyl-5-(2-thienyl)-1,2,4-oxadiazole and the metabolite benzenecarboximidamide	0.04	Dry soybeans
		0.02	Eggs; fat, meat and meat byproducts of cattle, goats, hogs, horses, poultry and sheep; field corn; milk and undelinted cotton seeds

[1] ppm = parts per million

MRLs established in Canada may be found using the Maximum Residue Limit Database on the Maximum Residue Limits for Pesticides webpage. The database allows users to search for established MRLs, regulated under the *Pest Control Products Act*, both for pesticides or for food commodities.

International Situation and Trade Implications

Tioxazafen is a new active ingredient that is concurrently being registered in Canada and the United States. The MRLs proposed for tioxazafen in Canada are the same as corresponding tolerances to be promulgated in the United States, except for livestock commodities, in accordance with Table 2, for which no tolerances are being proposed in the US.

Once established, the American tolerances for tioxazafen will be listed in the Electronic Code of Federal Regulations, 40 CFR Part 180, by pesticide.

Currently, there are no Codex MRLs[1] listed for tioxazafen in or on any commodity on the Codex Alimentarius Pesticide Residues in Food website.

Table 2 Comparison of Canadian MRLs, American Tolerances and Codex MRLs (where different)

Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Meat of cattle, goats, hogs, horses, poultry and sheep	0.02	Not Established	Not Established

[1] The Codex Alimentarius Commission is an international organization under the auspices of the United Nations that develops international food standards, including MRLs.

Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Meat byproducts of cattle, goats, hogs, horses, poultry and sheep	0.02	Not Established	Not Established
Fat of cattle, goats, hogs, horses, poultry and sheep	0.02	Not Established	Not Established
Eggs	0.02	Not Established	Not Established
Milk	0.02	Not Established	Not Established

Next Steps

The PMRA invites the public to submit written comments on the proposed MRLs for tioxazafen up to 75 days from the date of publication of this document. Please forward your comments to Publications (see the contact information on the cover page of this document). The PMRA will consider all comments received before making a final decision on the proposed MRLs. Comments received will be addressed in a separate document linked to this PMRL. The established MRLs will be legally in effect as of the date that they are entered into the Maximum Residue Limit Database.